

# Angle seat valve VZXA-B-TS7-1'''-M2-V14T-8.3-K-46-17-V4

Part number: 8060544

FESTO



## Data sheet

| Feature                | Value   |
|------------------------|---|
| Design                 | Poppet valve with piston drive  |
| Type of actuation      | Pneumatic   |
| Mounting position      | optional  |
| Type of mounting       | In-line installation  |
| Line connection        | Threaded coupling 1 NPT to ANSI/ASME B 1.20.1   |
| Valve function         | 2/2   |
| Flow direction         | Non-reversible  |
| Medium pressure        | 0 MPa...0.83 MPa<br>0 bar...8.3 bar   |
| Type of reset          | Mechanical spring   |
| Type of piloting       | Externally controlled   |
| Pneumatic connection   | Female thread G1/8  |
| Operating pressure     | 0.5 MPa...1 MPa<br>5 bar...10 bar<br>72.5 psi...145 psi   |
| Medium                 | Vapour<br>Mineral oil-based hydraulic fluid<br>Inert gases<br>Mineral oil<br>Water<br>Filtered compressed air, grade of filtration 200 µm<br>Neutral fluids |
| Direction of flow      | Below valve seat, for gaseous and liquid media  |
| Control of medium      | On/off operation  |
| Operating medium       | Compressed air to ISO 8573-1:2010 [7:4:4]   |
| Max. viscosity         | 600 mm <sup>2</sup> /s  |
| Media temperature      | -10 °C...180 °C   |
| Ambient temperature    | 0 °C...60 °C  |
| Flow rate Kv           | 20.3 m <sup>3</sup> /h  |
| Outdoor applications   | Weather-protected application areas Class C1 based on IEC 60654-1   |
| Note on materials      | RoHS-compliant  |
| LABS (PWIS) conformity | VDMA24364 zone III  |

| Feature                                | Value  |
|--|--|
| Material process valve housing         | Stainless steel casting  |
| Material number process valve housing  | ASTM A351-CF3M   |
| Material seals                         | FPM  |
| Material spindle seal                  | PTFE   |
| Material seat seal                     | PTFE   |
| Product weight                         | 2150 g   |
| Approval                               | CRN  |
| Explosion protection                   | Zone 1 (ATEX)<br>Zone 2 (ATEX)<br>Zone 21 (ATEX)<br>Zone 22 (ATEX) |
| Certificate issuing authority          | TÜV 968/V 1039.01/20   |
| Safety Integrity Level (SIL)           | SIL 2  |
| Probability of Failure per Hour (PFH)  | 0.000000136  |
| Probability of Failure on Demand (PFD) | 0.000595   |
| Size of drive                          | 46 mm  |
| Stroke                                 | 17 mm  |
| Control function                       | Closed via spring force, N/C                                       |
| Position detection                     | Via mechanical indicator   |
| Material drive housing                 | Stainless steel casting  |
| Material number drive housing          | 1.4408   |
| Storage temperature                    | -10 °C...60 °C   |
| Degree of protection                   | IP65<br>IP67   |
| Material piston rod                    | High-alloy stainless steel   |
| Material cover                         | Stainless steel casting  |